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A survey on wavelet applications in data mining

Tao Li, Oi Li, Shenghuo Zhu, Mitsunori Ogihara

December 2002 ACM SIGKDD Explorations Newsletter, Volume 4 Issue 2

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Recently there has been significant development in the use of wavelet methods in various data mining processes. However, there has been written no comprehensive survey available on the topic. The goal of this is paper to fill the void. First, the paper presents a high-level data-mining framework that reduces the overall process into smaller components. Then applications of wavelets for each component are reviewd. The paper concludes by discussing the impact of wavelets on data mining research an ...

2 Constrained formulations and algorithms for stock-price predictions using recurrent FIR

neural networks

Benjamin W. Wah, Minglun Qian

July 2002 Eighteenth national conference on Artificial intelligence

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In this paper, we develop new constrained artificial-neural-network (ANN) formulations and learning algorithms to predict future stock prices, a difficult time-series prediction problem. Specifically, we characterize stock prices as a non-stationary noisy time series, identify its predictable low-frequency components, develop strategies to predict missing low-frequency information in the lag period of a filtered time series, model the prediction problem by a recurrent FIR ANN, formulate the trai ...

Dynamic model abstraction

Kangsun Lee, Paul A. Fishwick

November 1996 Proceedings of the 28th conference on Winter simulation

Full text available: pdf(821.69 KB) Additional Information: full citation, references, citings

4 Real time application of artificial neural network for incipient fault detection of induction machines

Mo-yuen Chow, Sui Oi Yee

June 1990 Proceedings of the third international conference on Industrial and

engineering applications of artificial intelligence and expert systems -Volume 2

Full text available: pdf(751.83 KB) Additional Information: full citation, abstract, references, index terms

This paper describes several artificial neural network architectures for real time application in incipient fault detection of induction machines. The artificial neural networks perform the fault detection in real time, based on direct measurements from the motor, and no rigorous mathematical model of the motor is needed. Different approaches used to develop a reliable fault detector are presented and compared in this paper. The designed networks vary in complexity and accuracy. A high-orde ...

5 Time series forecasting using neural networks

Thomas Kolarik, Gottfried Rudorfer

August 1994 ACM SIGAPL APL Quote Quad, Proceedings of the international conference on APL: the language and its applications: the language and its applications, Volume 25 Issue 1

Additional Information: full citation, abstract, references, citings, index

Artificial neural networks are suitable for many tasks in pattern recognition and machine learning. In this paper we present an APL system for forecasting univariate time series with artificial neural networks. Unlike conventional techniques for time series analysis, an artificial neural network needs little information about the time series data and can be applied to a broad range of problems. However, the problem of network "tuning" remains: parameters of the backpropagation a ...

terms

6 A measurement-based admission control algorithm for integrated service packet networks

Sugih Jamin, Peter B. Danzig, Scott J. Shenker, Lixia Zhang February 1997 IEEE/ACM Transactions on Networking (TON), Volume 5 Issue 1

Full text available: pdf(284.33 KB) Additional Information: full citation, references, citings, index terms

Keywords: predictive service, quality-ofservice guarantee, real-time traffic

7 Query evaluation techniques for large databases

Goetz Graefe

June 1993 ACM Computing Surveys (CSUR), Volume 25 Issue 2

Full text available: pdf(9.37 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

Parallelization and analysis of a linear adaptive filtering algorithm

	Richard K. Acree, David T. Croley, Nasr Ullah, Mario J. Gonzalez, Darioush M. Samani March 1993 Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing: states of the art and practice Full text available: pdf(848.40 KB) Additional Information: full citation, references, index terms	
9	Interconnect noise avoidance methodologies & slew rate prediction: Interconnect and noise immunity design for the Pentium 4 processor Rajesh Kumar June 2003 Proceedings of the 40th conference on Design automation	
	Full text available: pdf(407.27 KB) Additional Information: full citation, abstract, references, index terms	
	This paper describes the key challenges, design methods, CAD and learnings in the area of interconnect and noise immunity design for the Intel Pentium 4 processor. This high frequency (currently at 3 Ghz with 6 Ghz execution core) design required aggressive domino, pulsed and other novel high speed circuit families that are very noise sensitive. Controlling interconnect delay, capacitive and inductive coupling is of paramount importance at such high frequencies and edge rates, made more difficult	
40	December associancy maying objects: Prodiction and indexing of maying objects with	
10	Research sessions: moving objects: Prediction and indexing of moving objects with unknown motion patterns Yufei Tao, Christos Faloutsos, Dimitris Papadias, Bin Liu June 2004 Proceedings of the 2004 ACM SIGMOD international conference on Management of data Full text available: ppdf(335.08 KB) Additional Information: full citation, abstract, references	
	Existing methods for peediction spatio-temporal databases assume that objects move according to linear functions. This severely limits their applicability, since in practice movement is more complex, and individual objects may follow drastically diffferent motion patterns. In order to overcome these problems, we first introduce a general framework for monitoring and indexing moving objects, where (i) each boject computes individually the function that accurately captures its movement and (ii) a	,
11	Chaos engineering in Japan	
• •	Kazuyuki Aihara, Ryu Katayama November 1995 Communications of the ACM, Volume 38 Issue 11	
	Full text available: pdf(431.25 KB) Additional Information: full citation, abstract, references, index terms	
	Since deterministic chaos is not only a profound concept in science but also a ubiquitous phenomenon in real-world nonlinear systems, extending to a variety of temporal and spatial scales, it can be naturally related to applications in science and technology [4]. In fact, it is not difficult to find the buds of such possible applications in historical papers by Van der Pol and Van der Mark [22], Ulam and von Neumann [21], and Kalman [12], although the term deterministic chaos	
12	Detecting Chaos in the Field Juergen Kahrs July 2000 Linux Journal	
	Full text available: html(16.73 KB) Additional Information: full citation, abstract, references, index terms	
	All that is real is reasonable, and all that is reasonable is real G.W.F. Hegel, 1770-1831	
13	Poster session: Implementation of digital fixed-point approximations to continuous-time IIR filters J. E. Carletta, R. J. Veillette, F. W. Krach, Z. Fang	

Results (page 1): delay and filter and ("nonlinear approximator" or "artificial neural") and (predict or for... Page 3 of 5

February 2003	Proceedings of the 2003 ACM/SIGDA eleventh international syn	nposium
	on Field programmable gate arrays	

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An analytical framework for the implementation of digital infinite impulse response filters in fixed-point hardware on FPGAs is presented. It presumes that a continuous-time filter with the desired response is given. Within the framework, the constant coefficient bit widths are determined by accounting for the sensitivity of the filter's pole and zero locations with respect to the coefficient perturbations. The internal signal bit widths are determined by calculating theoretical bounds on the ra ...

14 Poster session: Recursive circuit clustering for minimum delay and area
Mehrdad Eslami Dehkordi, Stephen D. Brown
February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium
on Field programmable gate arrays
Full text available: pdf(187.05 KB) Additional Information: full citation, abstract
We present an effective recursive algorithm for circuit clustering for delay and area minimization, which is applicable to FPGAs. At the highest level of clustering, the circuit is clustered using a modified single-level clustering algorithm. A cluster to netlist transformation technique is proposed, which converts each cluster into a new subcircuit. The algorithm then continues recursively by clustering the generated subcircuits into further levels of clusters. To reduce the amount of node dupl
15 Poster session: Lattice adaptive filter implementation for FPGA
Zdenek Pohl, Rudolf Matoušek, Jirí Kadlec, Milan Tichý, Miroslav Lícko
February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium
on Field programmable gate arrays
Full text available: pdf(187.05 KB) Additional Information: full citation, abstract
Our poster introduces an innovative RLS Lattice filter implementation for FPGAs. The signal processing applications typically require wide numeric range, and that poses a problem when using an FPGA implementation. Our approach is based on arithmetic using logarithmic numeric representation (LNS). The test application - an adaptive noise canceller - has been optimized for the Xilinx Virtex devices. It consumes roughly 70% of all logic resources of the XCV800 device and all block memory cells. The
16 A framework for bandwidth management in ATM networks—aggregate equivalent
bandwidth estimation approach Zbigniew Dziong, Marek Juda, Lorne G. Mason
February 1997 IEEE/ACM Transactions on Networking (TON), Volume 5 Issue 1
Full text available: pdf(359.92 KB) Additional Information: full citation, references, citings, index terms
Tuli text available. (projection of the projection of the projecti
17 Emerging design and tool challenges in RF and wireless applications: New techniques
for non-linear behavioral modeling of microwave/RF ICs from simulation and nonlinear

microwave measurements David E. Root, John Wood, Nick Tufillaro June 2003 Proceedings of the 40th conference on Design automation

Full text available: pdf(337.31 KB) Additional Information: full citation, abstract, references, index terms

This paper compares and contrasts recent nonlinear behavioral modeling techniques designed for microwave and RFIC applications which arise in radio and communication systems, and in the design of broad-band nonlinear components used for microwave instrumentation. These techniques include dynamic neural networks and nonlinear time Results (page 1): delay and filter and ("nonlinear approximator" or "artificial neural") and (predict or for... Page 5 of 5

series models in the time-domain, nonlinear describing functions in the frequency domain, and envelope-based methods in mixed time and frequency domains. Approaches to ...

Keywords: MMICs, RFICs, behavioral modeling, circuit simulation, nonlinear dynamics, nonlinear modeling, nonlinear simulation

18 Learning evaluation functions to improve optimization by local search

Justin Boyan, Andrew W. Moore

September 2001 The Journal of Machine Learning Research, Volume 1

Full text available: pdf(643.21 KB) Additional Information: full citation, abstract

This paper describes algorithms that learn to improve search performance on large-scale optimization tasks. The main algorithm, STAGE, works by learning an evaluation function that predicts the outcome of a local search algorithm, such as hillclimbing or Walksat, from features of states visited during search. The learned evaluation function is then used to bias future search trajectories toward better optima on the same problem. Another algorithm, X-STAGE, transfers previously learned evaluation ...

19 <u>Poster session: On hiding latency in reconfigurable systems: the case of merge-sort for</u> an FPGA-based system

Hossam ElGindy, George Ferizis

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

Recursive solutions are effective software techniques that are difficult to map into hardware due to their dependency on input size and data values. As a result, most high-level design tools do not allow for recursive calls. In this paper we present a technique for mapping the merge-sort algorithm, as a case study, into a reconfigurable system. Our mapping employs an on-line prediction method to reconfigure the necessary hardware only when the need arises, and to hide the reconfiguration delay. ...

20 <u>Poster session: Design framework for the implementation of the 2-D orthogonal</u> discrete wavelet transform on FPGA

A. Benkrid, D. Crookes, K. Benkrid

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

This paper gives a design framework for the implementation of the 2-D Orthogonal Discrete Wavelet Transform (DWT) on FPGA. The architecture is based on the Pyramid Algorithm Analysis. Our architecture spatially maps the multistage filter banks of the DWT onto the Xilinx Virtex-E FPGA family. In this paper we propose a novel FIR structure to handle the computation along the borders using symmetric extension. The paper includes a new detailed mathematical approach to determine the architecture's d ...

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February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium

M. A. H. B. Azhar, K. R. Dimond

Results (page 2): delay and filter and	l ("nonlinear approximator"	or "artificial neural") and (predict or for	Page 2 of 6
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Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

The employment of field programmable gate arrays (FPGAs) to a robot controller is very attractive, since it allows for fast IC prototyping and low cost modifications. The speedup is achieved because of pipelining and dedicated functions in hardware that are customized to the problem. The self learning ability and the adaptive nature of an Artificial Neural Network (ANN) makes it a good candidate for the control structure of a robot's navigation. An evolutionary approach in designing robots can e ...

	ngerprint system using a hardware/software environment Molz, Joäo Carlos Furtado, Marcos Flores Ferrão, Fernando G.
Moraes	
	the 2003 ACM/SIGDA eleventh international symposium mable gate arrays
	 Additional Information: <u>full citation</u> , <u>abstract</u>

software. This paper present a new algorithm for fingerprint features localization, that can be easily implemented in hardware (system-on-a-chip, FPGA). This algorithm is composed by 3 stages, first stage read a fingerprint image (255x255pixels, ash tones) and apply a Gaussian Filter, after this, apply a absolute difference mask (ADM) for detector the edges in the image filtered and the last stage look for fin ...

26 Poster session: A four-bit full adder implemented on fast SiGe FPGAs with novel power control scheme

K. Zhou, M. Chu, C. You, J.-R. Guo, Channakeshav, J. Mayega, B. S. Goda, R. P. Kraft, J. F. McDonald

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Full text available: 📆 pdf(187.05 KB) Additional Information: full citation, abstract

The low operating speed of current CMOS Field Programmable Gate Arrays (FPGAs), i.e., 10-220 MHz, has prevented their use in high-speed digital applications. With the advent of IBM Silicon Germanium (SiGe) 7HP technology, designers have been able to design FPGAs operating in the gigahertz range. This paper is going to elaborate on the implementation of a 4-bit ripple-carry full adder (FA) on the new SiGe FPGA with new architectures and a novel power management strategy. The 1-bit FA can be reali ...

27 Poster session: Synthetic circuit generation using clustering and iteration Paul D. Kundarewich, Jonathan Rose

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

The development of next-generation CAD tools and FPGA architectures requires benchmark circuits to experiment with new algorithms and architectures. There has always been a shortage of good public benchmarks for these purposes, and even companies that have access to proprietary customer designs could benefit from designs that meet size and other particular specifications. In this paper, we present a new method of generating realistic synthetic benchmark circuits to help alleviate this shortage. ...

28 Poster session: An estimation and exploration methodology from system-level specifications: application to FPGAs

Sebastien Bilavarn, Guy Gogniat, Jean Luc Philippe

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

Rapid evaluation and design space exploration from early specifications are important issues in the design cycle. We propose an original area vs. delay estimation methodology that targets reconfigurable architectures. Two main steps compose the estimation flow: i) structural estimations where architectural solutions are defined at the RT level, this step is technological independent and performs an automatic design space exploration and ii) physical estimations which perform technology mapping t ...

29 Poster session: A high resolution diagnosis technique for open and short defects in **FPGA** interconnects



Mehdi Baradaran Tahoori

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

A two-step diagnosis flow, coarse-grain and fine-grain, is presented in order to identify a faulty element in the FPGA interconnects. The fault models used for interconnect are open, resistive-open, and bridging fault. The coarse-grain phase identifies the faulty net, the routing between two consecutive sequential elements in the FPGA. This phase is performed by just post-processing tester results for the test configurations used for interconnect testing. During the fine-grain step, the faulty n ...

30 Poster session: Application-dependent testing of FPGAs for bridging faults Mehdi Baradaran Tahoori



February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

A new technique is presented for testing for bridging faults in the interconnects of an arbitrary design implemented in an FPGA. The configuration of the routing resources used in the original design remains unchanged in the test configurations. Only the logic blocks used in the design are reprogrammed in order to implement single-term functions, logic functions with only one minterm or one maxterm. As shown by formal proofs, all activated faults are detected when single-term functions and appro ...

31 Poster session: Design strategies and modified descriptions to optimize cipher FPGA implementations: fast and compact results for DES and triple-DES



Gaël Rouvroy, Francois-Xavier Standaert, Jean-Jacques Quisquater, Jean-Didier Legat February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

We propose a new mathematical DES description that allows optimized implementations. It also provides the best DES and triple-DES FPGA implementations known in term of ratio throughput/area, where area means the number of FPGA slices used. First, we get a less resource consuming unrolled DES implementation that works at data rates of 21.3 Gbps (333 MHz), using VIRTEX II technology. In this design, the plaintext, the key and the mode (encryption/decrytion) can be changed on a cycle-by-cycle basis ...

32 Poster session: Wireless sensor networks: a power-scalable motion estimation IP for hybrid video coding



Federico Quaglio, Maurzio Martina, Fabrizio Vacca, Guido Masera, Andrea Molino, Gianluca Piccinini, Maurizio Zamboni

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Full text available: 🔂 pdf(187.05 KB) Additional Information: full citation, abstract

Wireless Sensor Networks are an emerging phenomenon in the research community. The design and development of network architectures and nodes implementation are fostering many research activities. Due to their wide application fields and pervasive employment possibilities, the investigation of novel classes of wireless sensor nodes is of great concern. In this paper we presented a novel Power-Scalable Motion Estimation IP suitable for videosurveillance over Wireless Sensor Networks. The proposed ...

33 Poster session: An FPGA architecture with built-in error correction capability P. K. Lala, B. Kiran Kumar

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Full text available: 🔂 pdf(187.05 KB) Additional Information: full citation, abstract

The use of very deep submicron technology makes VLSI-based digital systems more susceptible to transient or soft errors, and thus compromises their reliability. This paper proposes an FPGA architecture inspired by the human immune system that allows tolerance of transient errors. The architecture is composed of a two-dimensional array of identical functional cells with different genetic codes. These codes are chosen based on the required functions to be performed by the functional cells. An erro ...

34 Poster session: Reconfigurable randomized K-way graph partitioning Fatih Kocan



February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

In this paper, a randomized k-way graph partitioning algorithm is mapped onto reconfigurable hardware. The randomized algorithm relies on repetitive running of the same algorithm with different random number sequences to achieve the (near-)optimal solution. The run-time and hardware requirements of this reconfigurable solution per a random number sequence are O(|V|-K) cycles and O(|V|log|V|+|E|) gates and flip-flops, respectively. Performance is improved further at the expense of more hardware b ...

35 Poster session: An automated and power-aware framework for utilization of IP cores in hardware generated from C descriptions targeting FPGAs



Alex Jones, Prith Banerjee

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Use of hand optimized Intellectual Property (IP) logic cores is prolific in hardware design. While IP cores remain a standard way to utilize the improvement in FPGA technology and contend with time to market pressure through reuse, popularity of tools generating hardware descriptions from high-level languages is also increasing in popularity. PACT HDL combines these two methods within a power-aware framework. The PACT HDL compiler generates power optimized VHDL/Verilog from a C language descript ...

36 Poster session: Power-aware architectures and circuits for FPGA-based signal processing

Frank Honoré, Ben Calhoun, Anantha Chandrakasan

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

This work showcases a power-aware system design methodology for DSP applications on

reconfigurable hardware platforms. In particular, an enhanced FPGA architecture is proposed and analyzed for a deep submicron process technology. These enhancements reduce Configurable Logic Block (CLB) usage for distributed arithmetic implementations of signal processing applications by 50% or more thereby reducing the load on interconnect resources. Multi-Threshold CMOS (MTCMOS) circuit design techniques are ag ...

³⁷ Poster session: FPGAs in critical hardware/software systems

Adrian J. Hilton J. Adrian J. Hilton, Gemma Townson, Jon G. Hall

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Full text available: Ddf(187.05 KB) Additional Information: full citation, abstract

FPGAs are being used in increasingly complex roles in critical systems, interacting with conventional critical software. Established safety standards require rigorous justification of safety and correctness of the conventional software in such systems. Newer standards now make similar requirements for safety-related electronic hardware, such as FPGAs, in these systems. In this paper we examine the current state-of-the-art in programming FPGAs, and their use in conventional (low-criticality) hard ...

38 Poster session: On computation and resource management in an FPGA-based computation environment

Soheil Ghiasi, Karlene Nguyen, Elaheh Bozorgzadeh, Majid Sarrafzadeh

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract, citings

The idea of managing the comprising computations of an application executed in an FPGAbased system is presented. An efficient algorithm for exploiting the timing slack of building blocks of the application is proposed. The slack of these blocks can be utilized by replacing them with slower but "cheaper" modules and by assigning the computations to the proper resources. Thus, our approach manages the comprising computations and system resources at the same time. This is performed without comprom ...

39 Poster session: Testing for bit error rate in FPGA communication interfaces Yongguan Fan, Zeliko Zilic

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Full text available: Topdf(187.05 KB) Additional Information: full citation, abstract

FPGAs have witnessed an increased use of dedicated communication interfaces. With their increased use, it is becoming critical to test and properly characterize all such interfaces. Bit error rate (BER) characteristic is one of the basic measures of the performance of any digital communication system. We propose a scheme for BER testing in FPGAs, which exhibits a few orders of magnitude speedup compared to traditional software simulation methods. In this scheme, we include a novel implementation ...

40 Poster session: Using FPGAs for data and reorganization engines: preliminary results for spatial pointer-based data structures

Pedro C. Diniz, Joonseok Park

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

FPGAs have appealing features such as customizable internal and external bandwidth and the ability to exploit vast amounts of fine-grain instruction-level parallelism. In this paper we explore the applicability of these features in using FPGAs as data search and reorganization engines for performing search and reorganization computations over spatial Results (page 2): delay and filter and ("nonlinear approximator" or "artificial neural") and (predict or for... Page 6 of 6

pointer-based data structures for which traditional computing platforms perform poorly. The preliminary experiments, for a set of simple spatial qu ...

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Relevance scale

41 Poster session: Track placement: orchestrating routing structures to maximize routability

Katherine Compton, Scott Hauck

Fèbruary 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Full text available: 📆 pdf(187.05 KB) Additional Information: full citation, abstract

The design of a routing channel for an FPGA is a complex process, requiring the careful balance of flexibility with silicon efficiency. With the growing move towards embedding FPGAs into SoC designs, and the opportunity to automatically generate FPGA architectures, this problem becomes even more critical. The design of a routing channel requires determining the number of routing tracks, the length of the wires in those tracks, and the positioning of the breaks on the tracks. This paper focuses o ...

42 Poster session: A high-speed successive erasure BCH decoder architecture

Thomas Buerner

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

A new high speed architecture for a BCH successive erasure decoder is presented. The Berlekamp-Massey based decoder by Sarwate and Shanbhag is extended to handle successive erasures. The critical path in the calculation submodules is increased from Tadd+Tmult to Tadd+Tmult+Tmux. The proposed architecture is implemented exemplary for a BCH(63,45,7) code with up to two erasures on a XILINX Spartan2E300-7. Thus a clock frequency of 95 MHz is reached using 47% of the available slices instead of 105 ...

43 Poster session: Customized regular channel design in FPGAs

Elaheh Bozorgzadeh, Majid Sarrafzadeh

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

In this paper, we study the problem of customized regular segmentation design in FPGA routing channels. We propose a deterministic algorithm for segmentation design problem in which each interval is assigned to only one segment (1-Segmentation). We solve the problem of maximum number of incremental track assignment of intervals by mincost network flow technique for 1-Segmentation design. The general K-Segmentation design

Results (page 3): delay and filter and ("nonlinear approximator" or "artificial neural") and (predict or for... Page 2 of 6

problem can also be solved by some modifications in our algorithm. We have ...

44 Poster session: A granularity-based classification model for systems-on-a-chip Stephan Bingemer, Peter Zipf, Manfred Glesner



February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Field-programmable logic has become an increasingly important technology for the design of digital circuits. One interesting point in the field of reconfigurable logic is its classification within the implementation space of other technologies. Such a classification gains importance if FPGA technology becomes an integral part of Systems-on-a-Chip (SoC). The poster discusses an approach to classify technologies based on their granularity. Therefore, a new distinction into homogeneous and heteroge ...

45 Poster session: A single-FPGA implementation of image connected component labelling



February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

This paper describes an architecture based on a serial iterative algorithm for Image Connected Component Labelling with a hardware complexity O(N) for an NxN image. The algorithm iteratively scans the input image, performing a recursive non-zero maximum neighbourhood operation. A complete forward pass is followed by an inverse pass in which the image is scanned in reverse order. The process is repeated until no change in the image occurs. The algorithm has been coded in Handel C language and tar ...

46 Poster session: A logic based approach to hardware abstraction

K. Benkrid, S. Belkacemi, D. Crookes

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

This paper presents a novel approach to hardware abstraction based on the logic programming language Prolog. This is an attempt to satisfy the dual requirement of abstract hardware design and hardware efficiency. Central to this approach is a hardware description environment called HIDE, which provides more abstract hardware descriptions and compositions than are possible in traditional hardware description languages such as VHDL or Verilog. HIDE enables highly scaleable and parameterised compos ...

47 Poster session: Making area-performance tradeoffs at the high level using the AccelFPGA compiler for FPGAs

P. Banerjee, V. Saxena, J. Uribe, M. Haldar, A. Nayak, V. Kim, D. Bagchi, S. Pal, N. Tripathi, R. Anderson

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Full text available: pdf(187.05 KB) Additional Information: <u>full citation</u>, <u>abstract</u>

Applications such as digital cell phones, 3G wireless receivers, and voice over IP, require DSP functions that are typically mapped onto general purpose DSP processors. With the introduction of advanced FPGA architectures which provide built-in DSP support such as the Xilinx Virtex-II, and the Altera Stratix, a new hardware alternative is available for DSP designers. DSP design has traditionally been divided into algorithm development and hardware/software implementation. The majority of DSP alg ...

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48 <u>Poster session: FPGA imp</u> Sanat Kamal Bahl, Jim Plusq	lementation of a fast Hadamard transformer for WCDMA	
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	rammable gate arrays (B) Additional Information: <u>full citation, abstract</u>	
cell by unique orthogonal using a Walsh-Hadamard receiver to decode the trawhich utilizes less hardwa	access (CDMA) systems the base station identifies each user in a (Walsh) codes. The Walsh codes are generated at the transmitter function. A Fast Hadamard Transformer (FHT) is used at the insmitted codes. The purpose of this study is to design a FHT are resources as compared to the existing designs and also suggest put length of the Walsh sequence	
49 Industry track papers: Min	ing heterogeneous gene expression data with time lagged	
recurrent neural networks		
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role of gene interaction w molecular level. In this pa Recurrent Neural Network the gene functional patter	ene expressions may provide a better insight into the biological ith the environment, disease development and drug effect at the oper for both exploring and prediction purposes a Time Lagged with trajectory learning is proposed for identifying and classifying the from the heterogeneous nonlinear time series microarray and procedures identify gene fun	
Keywords : backpropaga neural network, trajectory	tion through time, gene expression, heterogeneous, time lagged v learning	
50 MOS circuit models in Net	work C	
William S. Beckett July 1986 Proceedings of t	he 23rd ACM/IEEE conference on Design automation	
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circuits and systems. The capabilities including appropriate discrete event functional states.	ing language designed for constructing simulation models of VLSI language, which is a superset of C, supports a range of modeling eximate solution of Kirchoff equations at the circuit level and simulation at the system level. When used to model a MOS circuit, sees the circuit into a set of independent stages. The values of	

seventh Asia-Pacific conference on Computer systems architecture -Volume 6, Volume 24 Issue 3

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At the nanometer scale, the focus of micro-architecture will move from processing to communication. Most general computer architectures to date have been based on a "stored program" paradigm that differentiates between memory and processing and relies on communication over busses and other (relatively) long distance mechanisms. Nanometerscale electronics --- nanoelectronics - promises to fundamentally change the ground-rules. Processing will be cheap and plentiful, interconnection expensive but ...

Keywords: MIMD, QCA, SIMD, array architecture, computer architecture, device scaling, future trends, micro-architecture, nanocomputer architecture, nanoelectronic technology 52 IFIP Congress-62, Munich, Germany, August 27-September 1, 1962: Abstracts of June 1962 Communications of the ACM, Volume 5 Issue 6 Full text available: pdf(1.35 MB) Additional Information: full citation 53 The FINITE STRING Newsletter: Abstracts of current literature Computational Linguistics Staff January 1987 Computational Linguistics, Volume 13 Issue 1-2 Full text available: pdf(6.15 MB) Additional Information: full citation Publisher Site 54 Recipes for adjoint code construction Ralf Giering, Thomas Kaminski December 1998 ACM Transactions on Mathematical Software (TOMS), Volume 24 Issue 4 Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms Adjoint models are increasingly being developed for use in meteorology and oceanography. Typical applications are data assimilation, model tuning, sensitivity analysis, and determination of singular vectors. The adjoint model computes the gradient of a cost function with respect to control variables. Generation of adjoint code may be seen as the special case of differentiation of algorithms in reverse mode, where the dependent function is a scalar. The described method for adjoint code gene ... Keywords: adjoint model, adjoint operator, automatic differentiation, computational differentiation, data assimilation, differentiation of algorithms, implicit functions, inverse modeling, optimization, reverse mode 55 Using adaptive linear prediction to support real-time VBR video under RCBR network service model Abdelnaser Mohammad Adas October 1998 IEEE/ACM Transactions on Networking (TON), Volume 6 Issue 5 Additional Information: full citation, references, citings, index terms Full text available: pdf(229.90 KB) Keywords: ATM, QoS, VBR, adaptive linear prediction, congestion control 56 Introductory tutorials: Simulation-based optimization: practical introduction to simulation optimization Jay April, Fred Glover, James P. Kelly, Manuel Laguna December 2003 Proceedings of the 35th conference on Winter simulation: driving innovation

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Results (page 3): delay and filter and ("nonlinear approximator" or "artificial neural") and (predict or for... Page 5 of 6

园 pdf(384.39 KB)

full citation, abstract, references

The merging of optimization and simulation technologies has seen a rapid growth in recent years. A Google search on "Simulation Optimization" returns more than six thousand pages where this phrase appears. The content of these pages ranges from articles, conference presentations and books to software, sponsored work and consultancy. This is an area that has sparked as much interest in the academic world as in practical settings. In this paper, we first summarize some of the most relevant appr ...

57 Temporal sequence learning and data reduction for anomaly detection

Terran Lane, Carla E. Brodley

August 1999 ACM Transactions on Information and System Security (TISSEC), Volume 2 Issue 3

Full text available: pdf(628.31 KB)

Additional Information: full citation, abstract, references, citings, index terms

The anomaly-detection problem can be formulated as one of learning to characterize the behaviors of an individual, system, or network in terms of temporal sequences of discrete data. We present an approach on the basis of instance-based learning (IBL) techniques. To cast the anomaly-detection task in an IBL framework, we employ an approach that transforms temporal sequences of discrete, unordered observations into a metric space via a similarity measure that encodes intra-attribute depende ...

Keywords: anomaly detection, clustering, data reduction, empirical evaluation, instance based learning, machine learning, user profiling

58 Double exponential smoothing: an alternative to Kalman filter-based predictive tracking Joseph J. LaViola

May 2003 Proceedings of the workshop on Virtual environments 2003

Full text available: 🔂 pdf(229.71 KB) Additional Information: full citation, abstract, references, index terms

We present novel algorithms for predictive tracking of user position and orientation based on double exponential smoothing. These algorithms, when compared against Kalman and extended Kalman filter-based predictors with derivative free measurement models, run approximately 135 times faster with equivalent prediction performance and simpler implementations. This paper describes these algorithms in detail along with the Kalman and extended Kalman Filter predictors tested against. In addition, we d ...

59 Associative and Parallel Processors

Kenneth J. Thurber, Leon D. Wald

December 1975 ACM Computing Surveys (CSUR), Volume 7 Issue 4

Full text available: pdf(2.62 MB) Additional Information: full citation, references, citings, index terms

60 Automatic aircraft conflict resolution using genetic algorithms

Nicolas Durand, Jean-Marc Alliot, Joseph Noailles

February 1996 Proceedings of the 1996 ACM symposium on Applied Computing

Full text available: pdf(919.64 KB) Additional Information: full citation, references, index terms

Keywords: air traffic control, conflict resolution, genetic algorithms

Results (page 3): delay and filter and ("nonlinear approximator" or "artificial neural") and (predict or for... Page 6 of 6

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Patent Database Search Results: delay and filter and ("nonlinear approximator" or "artificial neural") and... Page 1 of 3

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(((delay AND filter) AND ("nonlinear approximator" OR "artificial neural")) AND (predict OR forecast)): 76 patents.

Hits 1 through 50 out of 76





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delay and filter and ("nonlinear approximator" or "artifici

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 - 2 6,802,046 Time domain measurement systems and methods
 - 3 6,768,944 M Method and system for controlling a vehicle
 - 4 6,757,602 T System for determining the occupancy state of a seat in a vehicle and controlling a component based thereon
 - 5 6,757,579 M Kalman filter state estimation for a manufacturing system
- ~6 6,751,602
 Neural net controller for noise and vibration reduction
 - 7 6,743,167 Method and system for predicting human cognitive performance using data from an actigraph
 - 8 6,740,032 M Method and system for predicting human congnitive performance
 - 9 6,738,697 Telematics system for vehicle diagnostics
 - 10 6,738,682 III Method and apparatus for scheduling based on state estimation uncertainties
 - 11 6,735,500 M Method, system, and computer program product for tactile cueing flight control
 - 12 6,733,036 Automotive electronic safety network
 - 13 6,720,920 II Method and arrangement for communicating between vehicles
 - 14 6,704,691 Method and system for in-line monitoring process performance using measurable equipment signals
 - 15 6,697,657 Method and devices for laser induced fluorescence attenuation spectroscopy (LIFAS)
 - 16 6,650,779 M Method and apparatus for analyzing an image to detect and identify patterns
 - 17 6,648,367 Integrated occupant protection system
 - 18 <u>6,625,569</u> TReal-time spatio-temporal coherence estimation for autonomous mode identification and invariance tracking

- 19 6,625,484 II Signal evaluation method for detecting QRS complexes in electrocardiogram signals
- 20 6,601,051 M Neural systems with range reducers and/or extenders
- 21 6,574,754 II Self-monitoring storage device using neural networks
- 22 6,574,501 Assessing blood brain barrier dynamics or identifying or measuring selected substances or toxins in a subject by analyzing Raman spectrum signals of selected regions in the eye
- 23 6,553,252 M Method and system for predicting human cognitive performance
- 24 6,549,804 M System for the prediction, rapid detection, warning, prevention or control of changes in activity states in the brain of a subject
- 25 6,539,354 M Methods and devices for producing and using synthetic visual speech based on natural coarticulation
- 26 6,535,785 System and method for monitoring and controlling gas plasma processes
- 27 6,533,316 Automotive electronic safety network
- 28 6,529,809 Method of developing a system for identifying the presence and orientation of an object in a vehicle
- 29 6,527,715 In System and method for predicting human cognitive performance using data from an actigraph
- 30 6,526,352 Method and arrangement for mapping a road
- 31 6,517,107 Methods for controlling a system in a vehicle using a transmitting/receiving transducer and/or while compensating for thermal gradients
- 32 6,484,133 **Sensor response rate accelerator**
- 33 6,459,973 Arrangements for detecting the presence or location of an object in a vehicle and for controlling deployment of a safety restraint
- 34 6,453,206 M Neural network for predicting values in non-linear functional mappings
- 35 6,452,870 Methods for controlling deployment of an occupant restraint in a vehicle and determining whether the occupant is a child seat
- 36 6,445,988 System for determining the occupancy state of a seat in a vehicle and controlling a component based thereon
- 37 6,419,629 Method for predicting human cognitive performance
- 38 6,418,424 Figonomic man-machine interface incorporating adaptive pattern recognition based control system
- 39 6,416,480 M Method and apparatus for automated acquisition of the glasgow coma score (AGCS)
- 40 6,411,946 TR Route optimization and traffic management in an ATM network using neural computing
- 41 6,408,227 **System and method for controlling effluents in treatment systems**
- 42 6,405,132 Accident avoidance system
- 43 6,403,384 In Device and method for analyzing a biologic sample
- 44 6,397,136 System for determining the occupancy state of a seat in a vehicle
- 45 6,377,545 The Open loop adaptive access control of ATM networks using a neural network
- 46 6,370,430 Apparatus and method for controlling the delivery of non-excitatory cardiac contractility modulating signals to a heart
- 47 6,351,683 II System and method for monitoring and controlling gas plasma processes
- 48 6,301,370 Face recognition from video images
- 49 6,279,946 Methods for controlling a system in a vehicle using a transmitting/receiving transducer and/or while compensating for thermal gradients
- o 50 6,278,962 M Hybrid linear-neural network process control

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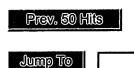
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Refine Search . delay and filter and ("nonlinear approximator" or "artifici

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NO.

- Title
- 51 6,249,252 Wireless location using multiple location estimators
- 52 6,241,686 System and method for predicting human cognitive performance using data from an actigraph
- 53 6,208,963 Method and apparatus for signal classification using a multilayer network
- 54 6,124,597 The Method and devices for laser induced fluorescence attenuation spectroscopy
- 55 6,024,705 Automated seismic detection of myocardial ischemia and related measurement of cardiac output parameters
- 56 5,995,868 \(\precess{System for the prediction, rapid detection, warning, prevention, or control of changes in activity states in the brain of a subject
- 57 5,992,383 The Control unit having a disturbance predictor, a system controlled by such a control unit, an electrical actuator controlled by such a control unit, and throttle device provided with such an actuator
 - 58 5,987,444 Robust neutral systems
 - 59 5,920,477 II Human factored interface incorporating adaptive pattern recognition based controller apparatus
 - 60 5,904,202 In Device for early detection of run-out in continuous casting
- ○61 <u>5,877,954</u> II Hybrid linear-neural network process control
 - 62 5,875,108 II Ergonomic man-machine interface incorporating adaptive pattern recognition based control system
 - 63 5,857,978 The Epileptic seizure prediction by non-linear methods
 - 64 5,812,992 M Method and system for training a neural network with adaptive weight updating and adaptive pruning in principal component space
 - 65 5,774,831 System for improving average accuracy of signals from global positioning system by using a neural network to obtain signal correction values
 - 66 5,774,357 In Human factored interface incorporating adaptive pattern recognition based controller apparatus

- 67 5,743,860 Apparatus and method for epileptic seizure detection using non-linear techniques
- 68 5,742,694 M Noise reduction filter
- 69 5,732,382 M Method for identifying misfire events of an internal combustion engine
- 70 5,715,372 Method and apparatus for characterizing an input signal
- 71 5,652,770 The Sampled-data filter with low delay
- 72 5,649,061 The Device and method for estimating a mental decision
- 73 5,555,495 Method for adaptive control of human-machine systems employing disturbance response
- 74 5,461,559 M Hierarchical control system for molecular beam epitaxy
- 75 5,255,348 M Neural network for learning, recognition and recall of pattern sequences
- 76 4,906,940 The Process and apparatus for the automatic detection and extraction of features in images and displays

